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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,767	05/27/2005	Masakazu Baba	Q88071	4363

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EXAMINER

RINEHART, KENNETH

ART UNIT	PAPER NUMBER
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3749

DATE MAILED: 06/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Sp

Office Action Summary	Application No. 10/536,767	Applicant(s) BABA ET AL.	
	Examiner Kenneth B. Rinehart	Art Unit 3749	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 May 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 May 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>5/27/05, 10/31/05</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1-5, 8 are rejected under 35 U.S.C. 102(a) as being anticipated by Sano et al in view of Pare (5732476). Sano et al shows a channel for a sample flowing in said channel, a main channel for a sample flowing in said main channel (Area where strip and space labels found, fig. 1); wherein said sample drying area comprises a fine channel narrower than said channel, a plurality of side channels branched from said main channel; and (Space, fig. 1), a sample ... area communicating with said side channels, wherein said sample drying area has a fine channel narrower than said side channels (gap, fig. 1), wherein said sample contains multiple components and said main channel comprises a separating portion to separate said components (small molecule, large molecule, fig. 1), said sample ... area comprises a plurality of protrusions separated each other (fig. 1). Sano et al discloses applicant's invention substantially as claimed with the exception of and a sample drying area having an opening communicating with said channel, drying, wherein said sample drying area has a lid comprising a fine channel communicating with said outside of said sample drying device, wherein said sample drying device comprises a temperature controller for controlling a temperature of said sample drying area. Pare teaches and a sample drying area having an opening communicating with said channel, drying, wherein said sample drying area has a lid comprising a fine channel communicating with

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said outside of said sample drying device, wherein said sample drying device comprises a temperature controller for controlling a temperature of said sample drying area (col. 12, lines 11-15, fig. 3) for the purpose of removing liquid. It would have been obvious to one of ordinary skill in the art to modify Sano et al by including and a sample drying area having an opening communicating with said channel, wherein said sample drying area has a lid comprising a fine channel communicating with said outside of said sample drying device as taught by Pare for the purpose of removing liquid in order to perform analysis on the substance. Sano et al in view of Pare discloses the claimed invention except for wherein said drying area has a shape so that the top of said sample drying area projects from said opening. It would have been an obvious matter of design choice to extend the projections, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art.

Claims 6, 7, 10, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sano et al in view of Pare (5732476) as applied to claims 1 and 3 above, and further in view of Apffel (5705813). Sano discloses separating unit (fig. 1). Sano et al in view of Pare (5732476) discloses applicant's invention substantially as claimed with the exception of wherein said sample drying area is filled with multiple particles, wherein said sample drying area is filled with a porous material, sample holder, pretreatment unit, drying unit, mass spectrometry. Apffel teaches said sample drying area is filled with multiple particles, wherein said sample drying area is filled with a porous material, sample holder (col. 6, line 32, col. 5, line 5-15, col. 4, lines 1-5, col. 4, lines 19-24), pretreatment unit (col. 4, line 32), drying unit (col. 4, line 1-3, mass spectrometry (col. 3, lines 50-56) for the purpose of performing mass spectrometry. It would have been obvious to one

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of ordinary skill in the art to modify Sano by including said sample drying area is filled with multiple particles, wherein said sample drying area is filled with a porous material, sample holder as taught by Apffel for the purpose of performing mass spectrometry to facilitate the analysis of the sample.

Claim 1-8, 10, 11 are rejected under 35 U.S.C. 102(a) as being anticipated by Sano et al in view of Pare (5732476). Sano et al shows a channel for a sample flowing in said channel, a main channel for a sample flowing in said main channel (Area where strip and space labels found, fig. 1); wherein said sample drying area comprises a fine channel narrower than said channel, a plurality of side channels branched from said main channel; and (Space, fig. 1), a sample ... area communicating with said side channels, wherein said sample drying area has a fine channel narrower than said side channels (gap, fig. 1), wherein said sample contains multiple components and said main channel comprises a separating portion to separate said components (small molecule, large molecule, fig. 1), said sample ... area comprises a plurality of protrusions separated each other (fig. 1), separating unit (fig. 1). Sano et al discloses applicant's invention substantially as claimed with the exception of and a sample drying area having an opening communicating with said channel, drying, wherein said sample drying area has a lid comprising a fine channel communicating with said outside of said sample drying device, wherein said sample drying device comprises a temperature controller for controlling a temperature of said sample drying area, wherein said sample drying area is filled with multiple particles, wherein said sample drying area is filled with a porous material, sample holder, pretreatment unit, drying unit, mass spectrometry. Apffel teaches and a sample drying area having an opening communicating with said channel, wherein said sample drying area has a lid

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comprising a fine channel communicating with said outside of said sample drying device (30, 24,26,28, fig. 1), drying (col. 4, lines 1-3), said sample drying area is filled with multiple particles, wherein said sample drying area is filled with a porous material, sample holder (col. 6, line 32, col. 5, line 5-15, col. 4, lines 1-5, col. 4, lines 19-24), pretreatment unit (col. 4, line 32), drying unit (col. 4, line 1-3, mass spectrometry (col. 3, lines 50-56) for the purpose of performing mass spectrometry. It would have been obvious to one of ordinary skill in the art to modify Sano by including and a sample drying area having an opening communicating with said channel, drying, wherein said sample drying area has a lid comprising a fine channel communicating with said outside of said sample drying device, wherein said sample drying device comprises a temperature controller for controlling a temperature of said sample drying area, wherein said sample drying area is filled with multiple particles, wherein said sample drying area is filled with a porous material, sample holder, pretreatment unit, drying unit, mass spectrometry as taught by Apffel for the purpose of performing mass spectrometry to facilitate the analysis of the sample. Sano et al in view of Apffel discloses the claimed invention except for wherein said drying area has a shape so that the top of said sample drying area projects from said opening. It would have been an obvious matter of design choice to extend the projections, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Rinehart whose telephone number is 571-272-4881. The examiner can normally be reached on 7:20 -4:20.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ehud Gartenberg can be reached on 571-272-4828. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

kbr


KENNETH RINEHART
PRIMARY EXAMINER